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Page 2

AMENDMENTS TO THE CLAIMS

Please amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled. The amendments presented in this paper are based on the claims as presented in the Supplemental Amendment filed on December 14, 2009.

1-23. **(Cancelled)**

24. **(Currently Amended)** A method for displaying frames from an in vivo image stream, said method comprising:
- assigning ~~a score~~ two or more scores to each of a plurality of frames based on a degree of variation ~~[[of]]~~ between a predetermined criterion of each frame and a predetermined criterion of two or more reference frame frames; and
 - displaying at least a subset of the plurality of frames from the in vivo image stream substantially simultaneously, wherein the subset of frames are positioned spatially in order of ascending or descending degree of variation based on the ~~score~~ scores assigned thereto.
25. **(Previously Presented)** The method according to claim 24 comprising displaying the in vivo image stream as a multi-frame image stream.
26. **(Previously Presented)** The method according to claim 24 comprising adjusting a rate at which the multi-frame image stream is displayed based on the content of the frames.
27. **(Cancelled)**
28. **(Currently Amended)** The method according to claim 24 wherein the ~~score is~~ scores are assigned based on a degree of color variation of the displayed frames as compared to the reference ~~frame~~ frames.

29. – 30. (Cancelled)

31. (Previously Presented) The method according to claim 24 comprising adjusting the size of at least one of the frames displayed based on the assigned scores.

32. (Previously Presented) The method according to claim 24 wherein the in vivo image stream includes frames captured from more than one image sensor.

33. (Previously Presented) The method according to claim 24 comprising displaying sensor data from a sensor other than an image sensor substantially simultaneously as the frames from the in vivo image stream.

34. (Currently Amended) A system for displaying frames of an in vivo image stream, the system comprising:
an in vivo imaging device to transmit an in vivo image stream;
a processor to assign a ~~score~~ two or more scores to each of a plurality of frames based on a degree of variation ~~[[of]]~~ between a predetermined criterion of each frame and a predetermined criterion of two or more reference frame frames; and
a display to display a multi-frame image stream, wherein each multi-frame image thereof displays at least a subset of the plurality of frames substantially simultaneously, wherein the subset of frames are positioned spatially in order of ascending or descending degree of variation based on the ~~score~~ scores assigned thereto.

35. (Previously Presented) The system of claim 34 wherein the in vivo imaging device is an autonomous capsule.

36. (Previously Presented) The system of claim 34 comprising a pH sensor.

37. (Currently Amended) The system of claim 34 wherein the ~~score is~~ scores are assigned based on data detected by a sensor.

38. **(Previously Presented)** The system of claim 34 wherein the processor is to adjust the stream rate of the multi-frame image stream.

39. **(Currently Amended)** A method for displaying frames from an in vivo image stream, the method comprising:

selecting a plurality of frames from an in vivo image stream;

assigning ~~a score~~ two or more scores to each of the plurality of frames based on a degree of variation ~~[[of]]~~ between a predetermined criterion of each frame and a predetermined criterion of two or more reference frame frames; and

displaying at least a subset of the plurality of frames substantially simultaneously, wherein the subset of frames are positioned spatially in order of ascending or descending degree of variation based on the ~~score~~ scores assigned thereto.

40. – 41. **(Cancelled)**

42. **(Previously Presented)** The method according to claim 39 wherein at least two of the plurality of frames are displayed having different sizes.

43. **(Currently Amended)** The method according to claim 39 wherein the ~~score is~~ scores are assigned based on color variation of the plurality of frames as compared to the reference ~~frame~~ frames.

44. **(Currently Amended)** The method according to claim 24 wherein at least one of the reference ~~frame~~ frames represents healthy tissue and wherein frames having a high degree of variation with respect to the healthy tissue reference frame are displayed to represent pathologies.

45. **(Currently Amended)** The method according to claim 24 wherein at least one of the reference ~~frame~~ frames represents a pathology and wherein frames having a low degree of variation with respect to the pathology reference frame are displayed.

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Page 5

46. **(Currently Amended)** The method according to claim 24 comprising selecting or generating the reference ~~frame~~ frames.

47. **(Currently Amended)** The method according to claim 46 wherein selecting or generating the reference ~~frame~~ frames is based on the frames to be displayed.

48. **(Previously Presented)** The method according to claim 24 wherein the predetermined criterion is selected from the group consisting of: color, shape features, focusing, lighting, blood detection, and image content which may not be associated with a pathology.